Surface Water Supply Index by Basin Data Dictionary

This document describes the Surface Water Supply Index by Basin dataset in the Colorado Information Marketplace.

The Surface Water Supply Index (SWSI) is used as an indicator of surface water supply conditions in Colorado. The SWSI compares the total volume of water in a basin or sub-basin against the volume available in the same month of historical years. Depending on the month, the volume is a combination of streamflow, streamflow forecast, and reservoir storage. The SWSI is calculated for Colorado's river basins and sub-basins; this data set provides information on the Colorado's basin-level SWSI calculation. More information is available at http://water.state.co.us/DWRDocs/Reports/Pages/SWSIReport.aspx.

Data Dictionary

Field Name	Description	Data Type
Basin	Major river basin that the SWSI is being calculated for. There are seven major river basins in Colorado.	Text
Report Year	Year of SWSI.	Number
Report Month	Month of SWSI.	Number
SWSI	Surface Water Supply Index. The SWSI value is used as an indicator of water supply conditions in Colorado's basins/sub-basins; it is developed based on the NEP. The value ranges between 4.16 and -4.16:	Number

NEP	Non Exceedance Probability. The NEP indicates how	Number
	often the current volume of water in the basin/sub-	
	basin has been exceeded during the same month of the	
	historical period. A value of 0 indicates that the volume	
	of water has always been exceeded in the past and	
	therefore represents extreme drought; a value of 100	
	indicates that the volume of water has never been	
	exceeded in the past and therefore indicates an	
	extremely abundant water supply. A value of 50 is	
	considered normal. The NEP is calculated using natural	
	flow, forecasted natural flow, and active storage data	
	over a historical period of record.	
SWSI Previous Month	SWSI value for previous month.	Number
Change from Previous Month	SWSI value change from previous month.	Number
SWSI Previous Year	SWSI value for the same month during the previous	Number
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Change from Previous	SWSI value change from previous year.	Number
Year		